

## TINA2-W

~45° wide beam. Assembly with holder and installation tape.

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.1 mm
Height	9.7 mm
Fastening	tape
ROHS compliant	yes ⓘ

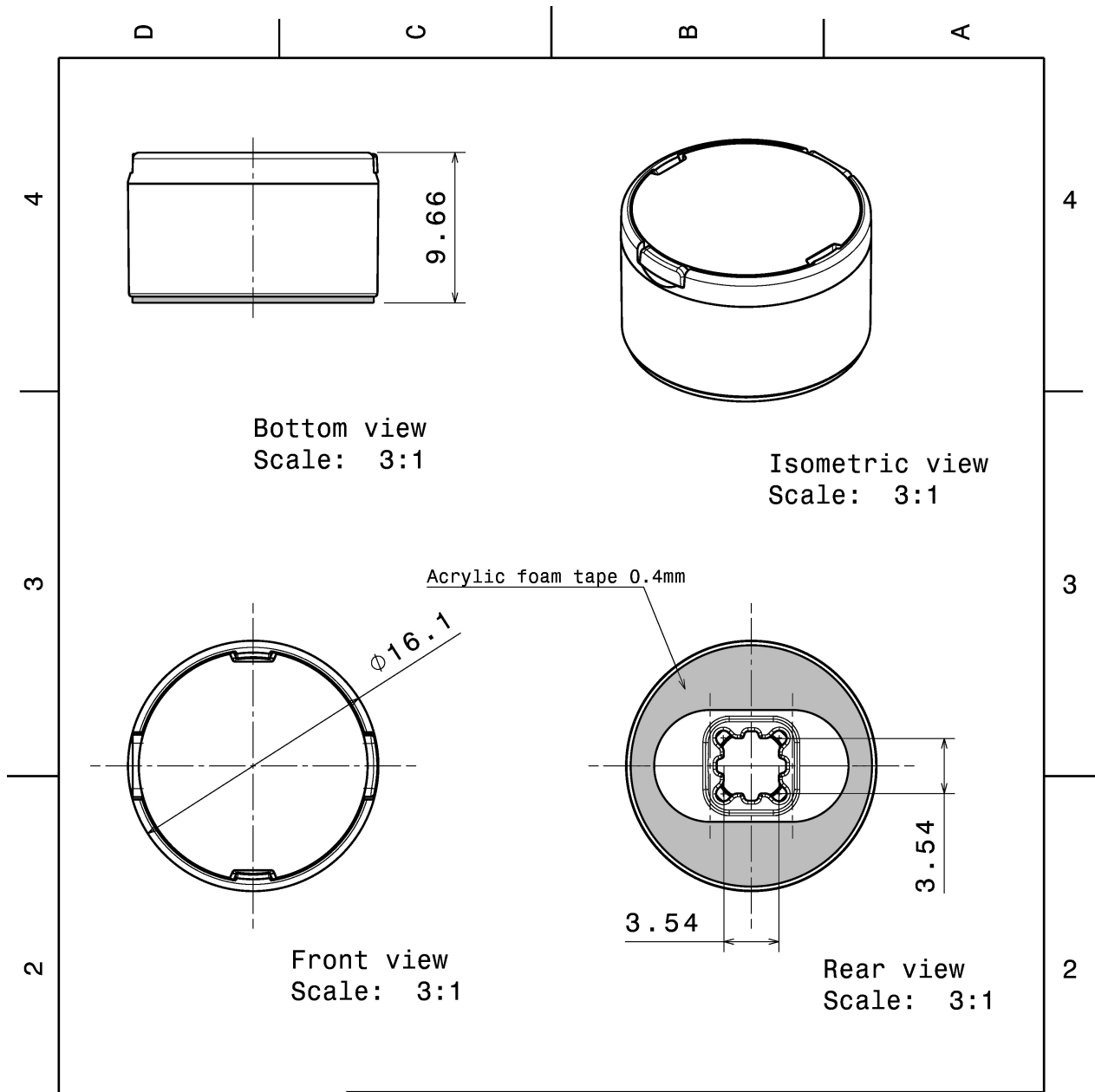
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
TINA2-W-XP	Single lens	PMMA	clear	
TINA2-XP-HLD-TAPE-BLK	Holder	PC	black	
TINA-TAPE3	Tape	Acrylic foam	black	

### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CA12056_TINA2-W	Single lens	4140	230	230	8.7
» Box size: 451 x 241 x 298 mm					





INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	TINA2-lens	PMMA	
2	C11418	TINA2-XP-HLD-TAPE-BLK	PC	black

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L

**LEDiL** Ledil Oy  
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THIRD ANGLE PROJECTION:

DRAWING TITLE  
**TINA2-XP-series assembly**


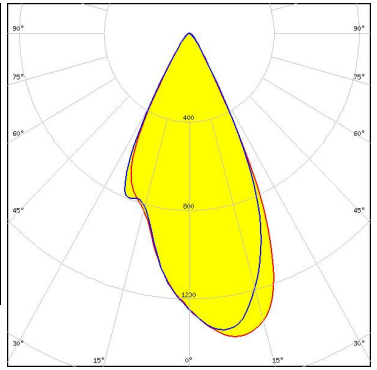

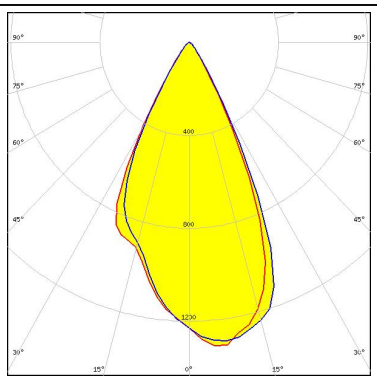

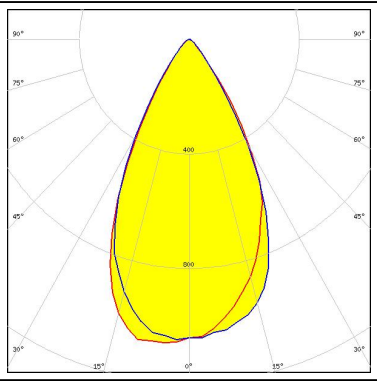

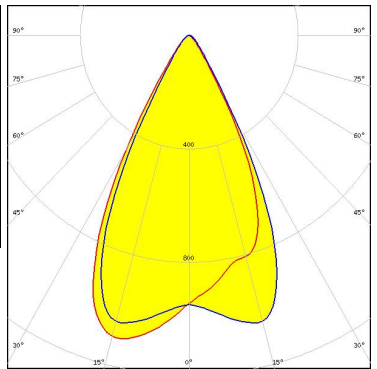
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SIZE	PART NUMBER
A4	-

SCALE	3:1	WEIGHT	1,3 g	SHEET	1/1
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See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

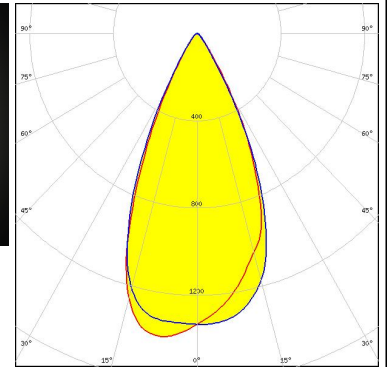
#### PHOTOMETRIC DATA (MEASURED):

<p><b>CREE</b> → <b>LED</b></p> <p>LED                    XP-E            FWHM / FWTM    50.0° / 68.0°            Efficiency            88 %            Peak intensity     1.5 cd/lm            LEDs/each optic   1            Light colour        White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED                    XP-E2            FWHM / FWTM    52.0° / 70.0°            Efficiency            89 %            Peak intensity     1.2 cd/lm            LEDs/each optic   1            Light colour        White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED                    XP-G            FWHM / FWTM    57.0° / 81.0°            Efficiency            88 %            Peak intensity     1 cd/lm            LEDs/each optic   1            Light colour        White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED                    XP-G2            FWHM / FWTM    54.0° / 74.0°            Efficiency            88 %            Peak intensity     1 cd/lm            LEDs/each optic   1            Light colour        White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

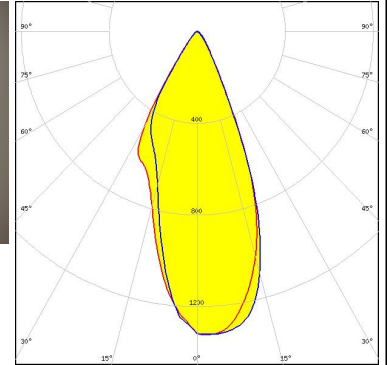
##### CREE LED

LED XP-G3  
 FWHM / FWTM 47.0° / 68.0°  
 Efficiency 87 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



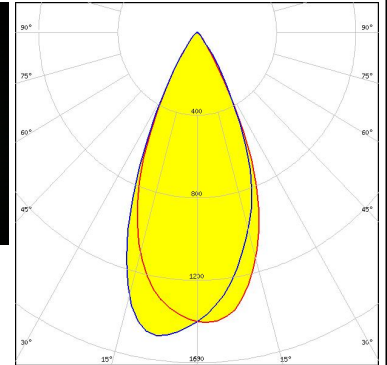
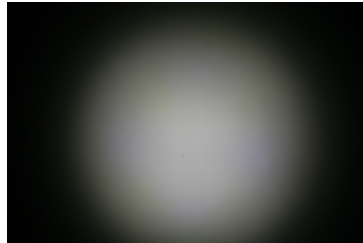
##### CREE LED

LED XQ-E HD  
 FWHM / FWTM 39.0° / 68.0°  
 Efficiency 72 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



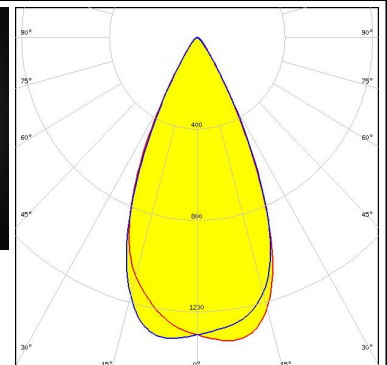
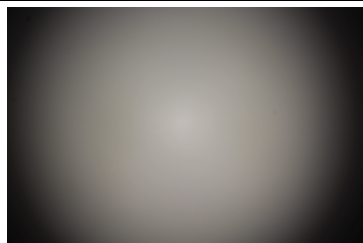
##### CREE LED

LED XT-E  
 FWHM / FWTM 46.0° / 70.0°  
 Efficiency 87 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

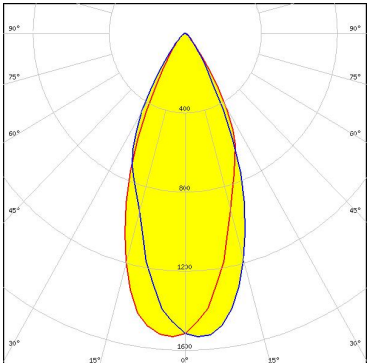
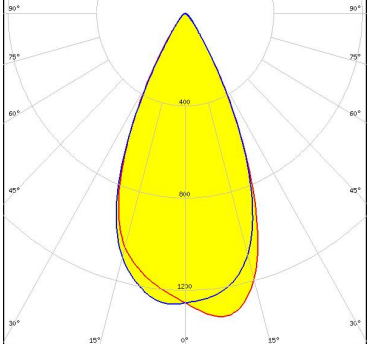


##### LUMILEDS

LED LUXEON V2  
 FWHM / FWTM 49.0° / 70.0°  
 Efficiency 89 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED                    Z5</p> <p>FWHM / FWTM      40.0° / 75.0°</p> <p>Efficiency            89 %</p> <p>Peak intensity      1.5 cd/m</p> <p>LEDs/each optic    1</p> <p>Light colour        White</p> <p>Required components:</p>	
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED                    Z5M3</p> <p>FWHM / FWTM      49.0° / 71.0°</p> <p>Efficiency            86 %</p> <p>Peak intensity      1.3 cd/m</p> <p>LEDs/each optic    1</p> <p>Light colour        White</p> <p>Required components:</p>	



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>CREE</b> LED</p> <p>LED: XP-G2 HE            FWHM / FWTM: 58.0° / 73.0°            Efficiency: 81 %            Peak intensity: 1 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>CREE</b> LED</p> <p>LED: XP-G3            FWHM / FWTM: 54.0° / 70.0°            Efficiency: 84 %            Peak intensity: 1.2 cd/lm            LEDs/each optic: 1            Light colour: Royal Blue            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxE21A            FWHM / FWTM: 34.6° / 57.8°            Efficiency: 90 %            Peak intensity: 2.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

### MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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